ROTECH SYSTEMS

Monitoring the world since 1983

ROTECH FOR RELIABILITY!

Why Accept Anything Less?

Product Information

CAE 2000 Series

Aluminium Body

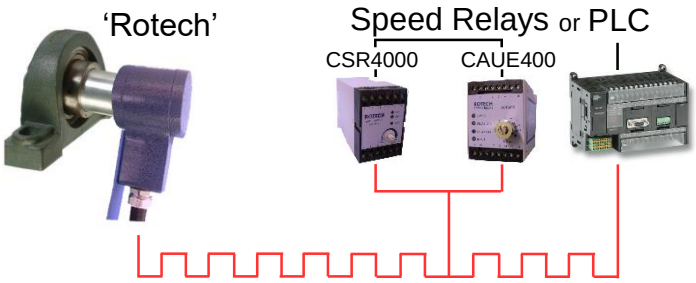
Heavy Duty – End of Shaft

The CAE 2000 series of Rotech shaft mounted sensors & encoders are manufactured in an extremely tough and durable aluminium casting with an industrial powder coated hammer blue finish.

Installation is simple and easy, just one 12mm threaded hole in the end of the shaft being monitored or fitted using the unique “Mag-con” magnetic connector.

A wide range of number of pulses per revolution are available together with AC and DC electrical outputs.

APPLICATION EXAMPLE:



FOR MONITORING:

- Speed
- Distance
- Direction
- Belt slip
- Shaft stopped
- Underspeed
- Overspeed
- Safety guards interlocking

FEATURES:

- Totally self contained (no guards required)
- Maintenance free for maximum reliability
- 1 to 1000 pulses per revolution
- Environment ingress-IP67
- -25 to +70, 100, 125, 150 deg Celsius versions available
- CE, ATEX, SIRA C US, FM APPROVED, c UL US LISTED, UK CA

MAG-CON

MAGNETIC SHAFT CONNECTOR

For Quick and Easy Installation of Rotech Shaft Mounted Sensors & Encoders.

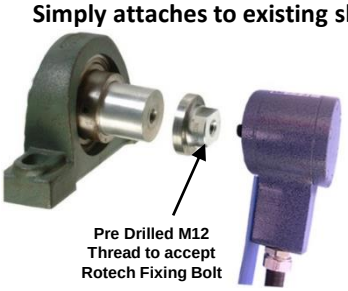
Simply attaches to existing shafts

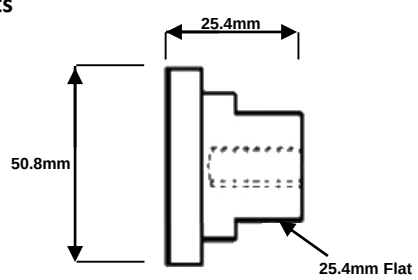
IMPORTANT NOTE:

MAXIMUM OPERATING SPEED IS 300RPM

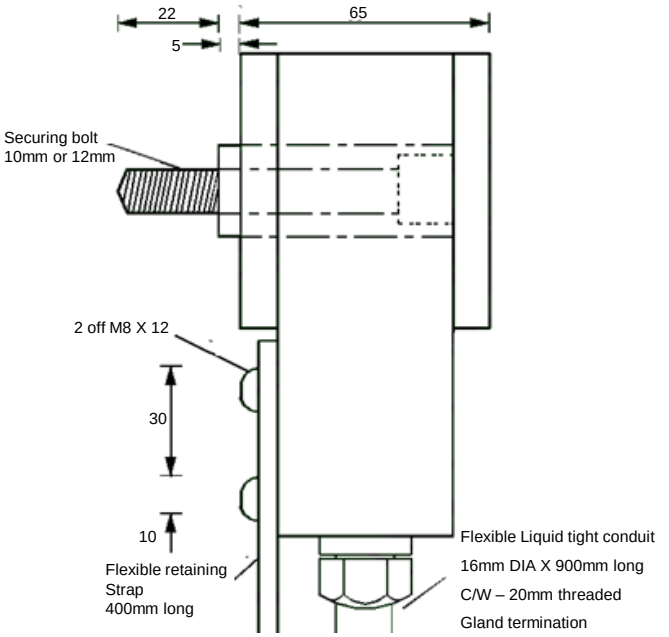
RECOMMENDED MINIMUM

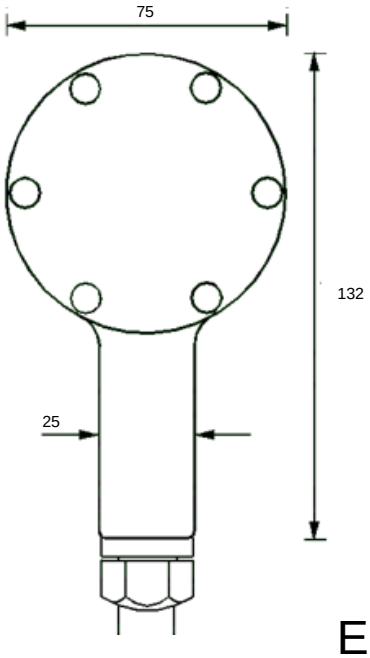
SHAFT DIAMETER FOR FITTING=35MM





Dimensions and Installation Information



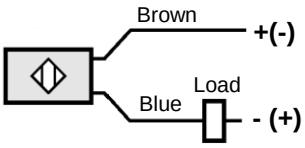


Shown in millimetres

Electrical Outputs

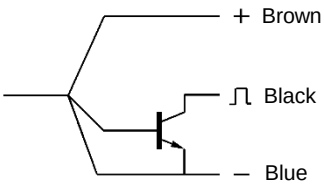
Available Pulse Rates (PPR)
1,2,4,5,6,8,10,12,16,20,30,32,40,50,60,100,120,180,240,250,300,360,500,1000 (Dependent Upon Output Type)

Type Z (2 Wire Non Polarized)
10-30Vdc



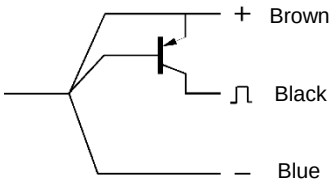
Max frequency = 1500Hz

Type E (N.P.N) 10-30Vdc
Current sink



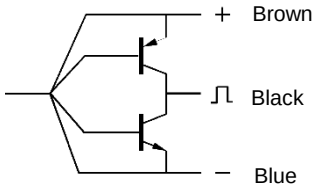
Max frequency = 600Hz

Type E2 (P.N.P) 10-30Vdc
Current source



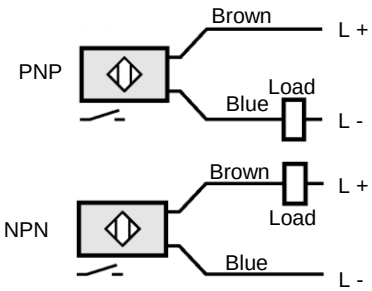
Max frequency = 600Hz

Type E3 (N.P.N + P.N.P – 3 wire)
10-30Vdc
Bi-polar – Current sink/source



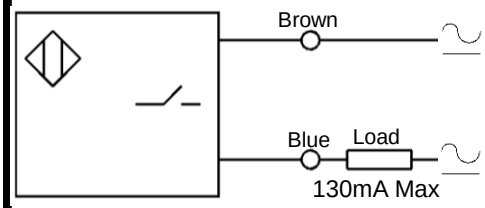
Max frequency = 1000Hz

Type E4 (N.P.N + P.N.P.- 2 Wire) 10-30Vdc
Bi-polar – Current sink/source



Max frequency = 1300Hz

Type W 20-240V AC/DC 50/60Hz
(1 to 30 PPR only)

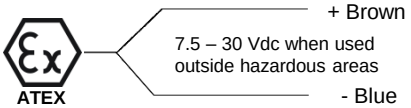


Note
Minimum operating current = 5mA

Max frequency = 25Hz (AC) 1000Hz (DC)

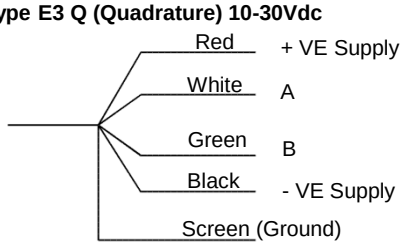
Type N (Namur) 8-2 Vdc (1KΩ)
Intrinsically safe circuits

The voltage and current characteristics of NAMUR sensor outputs are so low that they can be safely used in explosive environments.
The power limitation is implemented in the corresponding equipment. This means that the circuit containing a NAMUR proximity sensor Is only intrinsically safe if it is supplied via a corresponding isolating amplifier.
Contact Rotech Systems for details of amplifiers available.

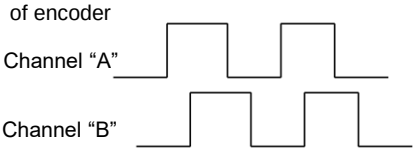


Max frequency = 2000Hz

Type E3 Q (Quadrature) 10-30Vdc

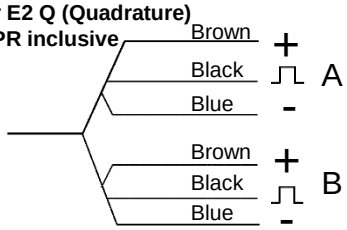


CH "A" Leads CH "B"
for clockwise rotation
viewed from shaft end
of encoder



Max frequency = 15KHz

Type E or E2 Q (Quadrature)
1 to 40 PPR inclusive



Max frequency = 600Hz

ROTECH SYSTEMS
Tel : +44 (0)151 356 2322 Website: www.rotechsystems.com.au
Email: sales@rotechsystems.co.uk

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